

RULES  
OF  
TENNESSEE DEPARTMENT OF ENVIRONMENT AND CONSERVATION  
WATER QUALITY CONTROL BOARD  
DIVISION OF WATER POLLUTION CONTROL

CHAPTER 1200-4-2  
REGULATIONS FOR PLANS SUBMITTAL, AND APPROVAL:  
CONTROL OF CONSTRUCTION: CONTROL OF OPERATION

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1200-4-2-.01 REGISTERED ENGINEER REQUIRED:

Whenever any new works or change in existing works is contemplated whereby sewage, industrial wastes, or other waste will be discharged into or adjacent to any waters of the State, a registered engineer must plan, design, and inspect the construction of any such works; also, a registered engineer must assist in the start-up of and outline correct operating procedures for any new or altered wastewater treatment or water quality control facilities. Any registered engineer herein required shall be governed by the terms of Sections 62-2-101 et. seq. of the Tennessee Code Annotated as amended which is known as "The Act Creating for the State of Tennessee a State Board of Architectural and Engineering Examiners." Regardless of the contemplated expenditure for the completed project, all of the requirements of all other regulations in this section, including the requirement that plans and specifications for such project must be submitted to and approved by a representative of the Commissioner, Tennessee Department of Environment and Conservation, shall be followed.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.02 PRELIMINARY DISCUSSION CONCERNING PROJECT:

The engineer employed by the person who is planning to carry out an activity requiring plans approval as outlined in Section 69-3-108 of the Act and which will result in a new or modified discharge of pollutants should make written request for a meeting with representatives of the Commissioner for an informal discussion of the proposed project with relation to its scope and purpose. Such meeting should be held within thirty (30) days from the receipt of the request. At this meeting, the engineer should make available to the representative of the Commissioner general information regarding the proposed point of discharge, quantity and quality of discharge, land and water use in the vicinity of the proposed discharge and general information regarding the anticipated effect which the proposed activity may have on the surrounding area. The preliminary data will be reviewed and, if sufficient to indicate scope and extent of the project, the representatives of the Commissioner will outline general requirements for its official

approval. For projects of sufficiently limited scope, the Commissioner's representatives shall be allowed to accept a single copy of adequate preliminary data in lieu of three complete sets of engineering reports and preliminary plans.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History: Original Rule certified June 7, 1974. Amendment filed November 25, 1977; effective December 26, 1977.*

1200-4-2-.03 ENGINEERING REPORT AND PRELIMINARY PLANS:

- (1) For all projects in which a new sewage treatment plant is proposed or where an existing sewage treatment plant is to be modified, expanded or upgraded, an engineering report and preliminary plans must be prepared and presented in accordance with the requirements of the representatives of the Commissioner. The engineering report with preliminary plans must conform to the guidelines for such reports and plans as published by the Tennessee Department of Environment and Conservation. The report shall contain all required information for adequate design evaluation of the proposed waste treatment facilities and shall include such results of waste and water analyses, treatability or pilot treatment studies and investigations that may be required by the Commissioner's representatives. Three (3) copies of the engineering report and preliminary plans shall be submitted to a representative of the Commissioner for approval thirty (30) days prior to the date upon which action is desired. These data will be reviewed and, if sufficient to evaluate the effect of the project, the Commissioner's representative, will confirm acceptance of the preliminary information by official approval letter and instruct the engineer to proceed with development of final plans and specifications. If final plans and specifications have not been submitted for review within one (1) year from the date of approval of the engineering report, the approval shall be subject to re-evaluation and may be declared null and void.
- (2) The engineering report and preliminary plans shall be prepared in accordance with generally accepted wastewater engineering practices. The "Design Criteria for Sewage Works", published from time to time are used internally by the Division as a compilation of such practices and are available to the public. Other designs may also be used if adequately supported by calculations and actual testing data.
- (3) For small domestic wastewater plants, the following restrictions apply:
  - (a) Activated sludge plants for design flows of 30,000 to 100,000 gallons per day will only be approved if all other treatment schemes have been demonstrated to be impractical due to non-economic considerations including but not limited to available space.
  - (b) No activated sludge plants will be approved for design flows less than 30,000 gallons per day.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History: Original Rule certified June 7, 1974. Amendment filed November 25, 1977; effective December 26, 1977. Amendment filed June 29, 1988; effective August 13, 1988.*

1200-4-2-.04 SITE APPROVAL:

- (1) The proposed site for any treatment works or facilities shall be made available to representatives of the Commissioner for inspections at or prior to the time that the preliminary information and/or engineering report and preliminary plans are submitted for approval. The representative of the Commissioner may specify, in the letter of acceptance and approval of the preliminary report and preliminary plans, any specific requirements, such as effluent limitations or other restrictions,

which must be met by the proposed facilities. Preparation of final plans and specifications should not be commenced prior to receipt of an official site approval letter or notification to proceed.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History: Original rule certified June 7, 1974. Amendment filed November 25, 1977; effective December 26, 1977.*

1200-4-2-.05 FINAL PLANS, CONTRACT DRAWINGS AND SPECIFICATIONS:

- (1) Construction work shall not be commenced on any new construction or major change of existing facilities or for any activity outlined in Section 69-3-108 of the Act until complete and final plans and specifications for such activities have been submitted to and approved in writing by an authorized representative of the Commissioner. No such approval shall be construed as creating the presumption of correct operation nor as warranting by the Commissioner or by his representative that the approved facilities will reach the design goals. The final contract drawings and specifications shall conform to the conditions outlined in the guidelines for preparing such plans as published by the Tennessee Department of Environment and Conservation. Final plans should be on 24 inch by 36 inch sheets with all sheets the same size. A minimum of three sets of final plans and specifications must be submitted to a representative of the Commissioner for review and comment or approval. All submittals of final plans and specifications shall be made at least thirty (30) days before action is desired. Upon approval of a submittal, each sheet of each complete set of plans and the cover sheet of each set of specifications will be stamped with the official stamp of approval. If construction has not commenced in accordance with approved plans and specifications within one (1) year from the date of approval of said plans and specifications, the approval shall be subject to re-evaluation and may be declared null and void.
- (2) The final plans and specifications shall be prepared in accordance with generally accepted wastewater engineering practices. The "Design Criteria for Sewage Works", published from time to time, are used internally by the Division as a compilation of such practices and are available to the public. Other designs may also be used if adequately supported by calculations and actual testing data.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History: Original rule certified June 7, 1974. Amendment filed November 25, 1977; effective December 26, 1977. Amendment filed June 29, 1988; effective August 13, 1988.*

1200-4-2-.06 REVISION OF PLANS:

In the event that it is necessary to require any material change in the submitted plans prior to approval, the Commissioner's representative will outline the required revisions by letter, documented telephone conversation or by other means, as appropriate, to the engineer and the plans shall be revised as required for approval. Copies of the original submission will be returned to the engineer for revision if deemed necessary. Otherwise, revisions may be made by revised plan sheets and addenda to the specifications. In the event that it becomes necessary to make any material change, including equipment substitutions or the provision of "equals," in the approved plans and specifications, subsequent to the date of approval and to the placing of official stamp on such approved plans and specifications, revised plans and specifications, together with a statement for the reason for the changes shall be submitted to the Commissioner's representative for review and comment or approval. No part of the work affected by the change or changes shall be started or completed until the Commissioner's representative has given his approval in writing; except that emergency changes which are required as construction proceeds may be made upon verbal approval from the Commissioner's representative, provided that such changes are reflected in as-built plans and specifications which are submitted in the appropriate number of copies at the conclusion of project construction.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original rule certified June 7, 1974. Amendment filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.07 PERMIT FOR CONSTRUCTION, INSTALLATION OR MODIFICATION OF ANY ESTABLISHMENT, TREATMENT WORKS OR PART THEREOF, OR NEW OUTLET:

- (1) In accordance with T.C.A. 69-3-108, the submission of letters, reports, plans and specifications shall constitute an application for a permit for (a) the construction, installation or modification of any treatment works or part thereof, or any extension or addition thereto; (b) the construction or installation of any establishment or any extension or modification thereof or addition thereto, the operation of which will or is likely to cause an increase in the discharge of wastes into the waters of the State or would otherwise alter the physical, chemical, biological or bacteriological properties of any waters of the State in any manner not already lawfully authorized; or (c) the construction of any new outlet for the discharge of any wastes into the waters of the State; whichever is applicable. The official letter issued by the Commissioner's representative approving a project for construction in accordance with submitted plans and specifications, together with the plans and specifications bearing the official "Approved for Construction" stamp of the Commissioner, shall constitute a valid permit to construct, install or modify in conformance with all conditions shown and specified in the approved plans and specifications. Such permit to construct, install or modify, shall not constitute a valid permit for:
  - (a) The alteration of the physical, chemical, radiological, biological, or bacteriological properties of any waters of the State;
  - (b) The operation of any treatment works or part thereof or any extension or addition thereto;
  - (c) The development of a natural resource or the operation of any establishment or any extension or modification thereof or addition thereto, the operation of which will or is likely to cause an increase in the discharge of wastes into the waters of the State or would otherwise alter the physical, chemical, radiological, biological, or bacteriological properties of any waters of the State in any manner not already authorized;
  - (d) The increase in volume or strength of any wastes in excess of the permissive discharges specified under any existing permit; or
  - (e) The use of any new outlet for the discharge of any wastes into the waters of the State.
- (2) A separate and distinctly different application for a permit to operate a sewerage system or a sewage treatment plant, and to discharge sewage, industrial waste or other waste from any new or existing outlet, following treatment, must be filed with the Division of Water Pollution Control on the appropriate forms. No wastes, treated or untreated, shall be discharged from any source prior to completed copies of an application for a permit to discharge being filed with the Division

of Water Pollution Control, and prior to the issuance of a valid permit to discharge.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.08 WORK IN CONFORMITY WITH PLANS AND SPECIFICATIONS:

All work on new construction or changes in existing facilities and all work relating to activities as outlined in Section 69-3-108 of the Act shall be in conformance with the officially approved plans and specifications bearing the Commissioner's official stamp of approval. One copy of the approved plans and specifications, bearing the official stamp of approval, shall be available at or near the construction site and all construction shall be in conformance with the approved plans and specifications and approved amendments thereto. It shall be the engineer's or responsible person's responsibility to inspect or insure inspection of construction of the facilities and to assist in commencement of operation and to verify that completed facilities are in accordance with approved plans and specifications at the time of the final inspection. The Commissioner's representative may require that reports be filed during construction to indicate that work is being done in conformance with the approved plans and to obtain any additional data deemed necessary. The construction area shall be made available to the Commissioner's representative to make inspections of the work to determine that it is being done or has been done in conformity with the officially approved plans. When construction of the proposed facilities has been completed, the Commissioner or his authorized representative may conduct a final inspection of the facilities to determine that all work has been done in conformity with approved plans and specifications. In the event that approved plans and specifications have not been followed during the construction procedure, such revision and alterations of the facilities shall be required as to comply with the details of the approved plans and specifications and approved amendments thereto.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.09 COMMENCEMENT OF OPERATION OF COMPLETED FACILITY:

The start-up of a completed wastewater treatment facility shall be attended by the engineer, the agent or agents designated by the responsible person to be in charge of the operation and maintenance of the works, the Commissioner's representative and any others deemed necessary. The engineer shall instruct the person or the person's agent in the proper operation and maintenance of the facilities and shall present them with a complete manual outlining the proper operation and maintenance procedures to be followed. The Commissioner's representative shall instruct the person or the person's agent in the keeping of necessary records of operation and reports of analyses for the facilities and shall provide the person or his agent with a supply of official forms upon which such records shall be kept. The engineer and the Commissioner's representative shall instruct the person or the person's agent in the required points of sampling, methods for and number of analyses, reporting techniques, reporting frequency and any other information deemed pertinent to insure compliance with the intent of the Act. Following the final inspection when the Commissioner's representative deems the facility to be acceptable, such acceptability will be acknowledged by letter to the responsible person and such letter will transmit to the person the Commissioner's requirements for supervision over operation and maintenance of the completed facilities.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.10 RECORDS AND REPORTS:

- (1) Records of operation for sewage, industrial waste and other waste, collection and treatment or disposal works may be required by the Commissioner's representative pursuant to Section 69-3-113 of the Act, and the data shall be submitted to the Commissioner's representative on forms supplied by the Tennessee Department of Environment and Conservation or on forms approved by the Commissioner's representative for such use.

- (2) Reports may be required weekly, monthly, or as deemed reasonable and necessary and directed by a representative of the Commissioner. These reports will serve to ascertain the continuous and satisfactory operation of the works in such manner as to insure the protection of water quality. These reports shall be true and accurate and shall not contain false or misleading information.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.11 SAMPLES:

Such samples of sewage, industrial waste, other waste and of water from receiving streams or other appropriate waters shall be submitted to the Commissioner's representative when and in such manner as directed. The samples shall serve to check upon any examination being made by the discharger and to check the effectiveness of the collection, treatment and disposal facilities in protecting the water quality.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*

1200-4-2-.12 SUPERVISION OF OPERATION:

The supervision of operation and maintenance of any sewage collection and disposal works shall be such as required by Sections 68-221-901 through 68-221-915, Tennessee Code Annotated, known as the "Water Environmental Health Act of 1984", as amended." The Commissioner or his representative shall require such supervision, operation and maintenance of any facility, whether for sewage, industrial waste or other waste, as in his opinion, is required to produce satisfactory results as judged by the current standards of criteria of practice for the maintenance and operation of various types of treatment facilities as may be established by the Tennessee Department of Environment and Conservation from time to time. Evidence of competency shall be required in accordance with Sections 68-221-901 through 68-221-915, Tennessee Code Annotated, and in accordance with requirements of the Commissioner or his authorized representative in order to insure proper operation and maintenance of any collection or disposal works, whether for sewage, industrial waste or other waste.

*Rulemaking Authority: T.C.A. Section §69-3-105(b) and §4-5-201 et. seq. Substantive Authority: T.C.A. Section §69-3-101 et. seq. Administrative History. Original Rule certified June 7, 1974. Rule Amended: filed November 25, 1977, effective December 26, 1977.*